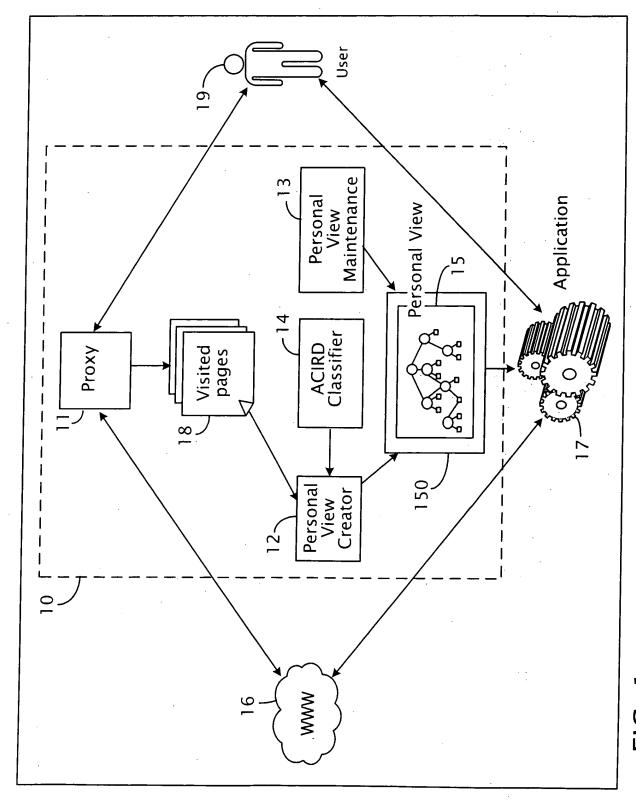
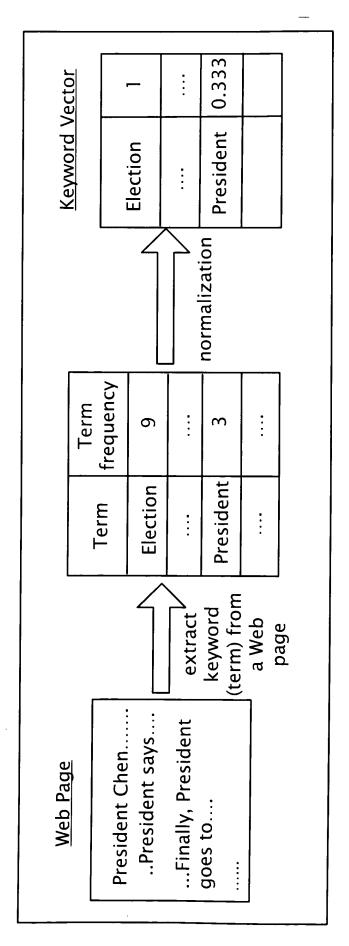
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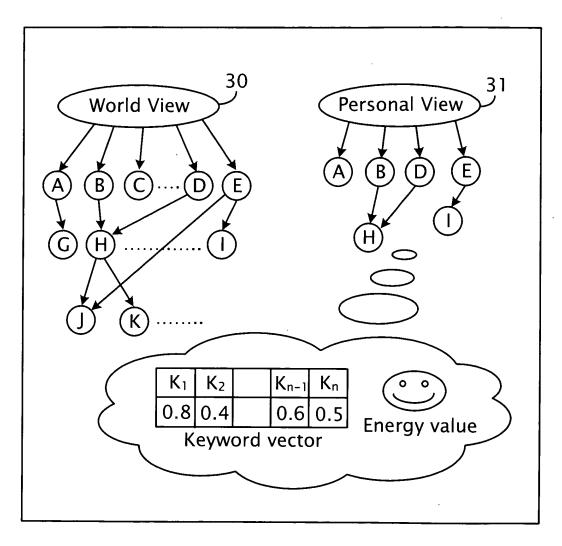


FIG. 3

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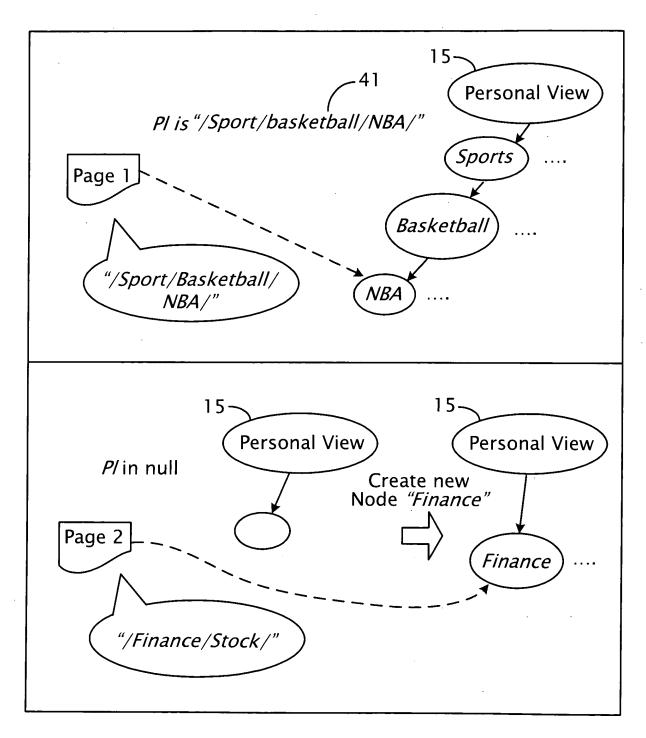
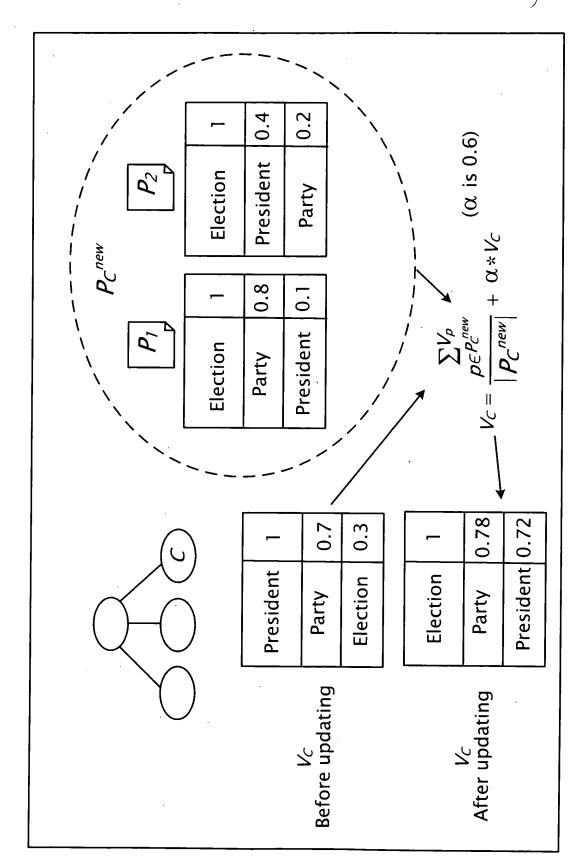


FIG. 4

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For each category c in the Personal View

While $(E_c > threshold)$

 $c_{child} = ARGMAX_{c_{child}} in c \{SplitGain(c, c_{child})\}$

Create the category *c_{child}* in the *Personal View;*

Update the energy value of c;

Calculate the energy value of c_{child} ;

Calculate the keyword vector of *c_{child}*;

Update the keyword vector of *c*;

End While;

End For;

FIG. 6A

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For each category c in the personal view

 $E_c = E_c - \beta$

If $E_c <= th$ then

Update the keyword vector of \vec{c} 's parent;

Remove category c from the personal view;

End If;

End For;

FIG. 6B